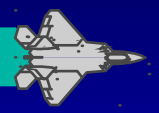
ACI/ATI Status

AFSOM UWG
13-15 Oct 99

ACI/ATI Contact Information



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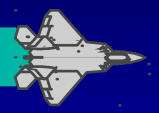
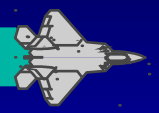
ACI/ATI Status



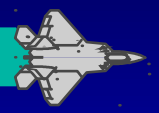
- **ACI Results**
- **ACI Status**
- **ATI Phase II Results**
- **ACI/ATI Future**

ACI Results



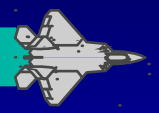
- **UFL 99 in August**
  - Operated in parallel with ATI
    - No conflicts occurred
    - Only one system can be used to input missions
  - 24 hour exercise supported with two support personnel running both systems
- **Salty Gecko**
  - Cancelled

ACI Status



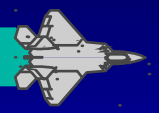
- **CTAPS 5.2.3 Testing**
  - Testing performed at Breakaway Solutions lab in Philadelphia
  - Year 2000 CTAPS dataset was used
    - provided by 505th ECS at Hurlburt Field
  - No unresolved issues with using ACI with CTAPS 5.2.3
- **ACI Upgrade to support AWSIM 2.2.1.7**
  - Support of “ACONAME” keyword for airspace deletion
  - Corrected issue associated with duplicate CTAPS task unit references
- **Result: ACI 2.1.3**

ATI Phase II Results (1 of 5)



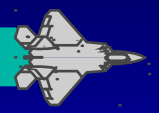
- **JEFX 99 (May-Aug 1999)**
  - **Added new C4I Feedback system**
  - **Added new Mission Planner Workstation capability to existing Mission Editor and GIAC**
  - **Added Ground Alert Tasking Monitor to notify controllers when a ground alert mission is scrambled by the AOC**
  - **Supported all parts of JEFX 99 with no more than two developers on site at any one time**

ATI Phase II Results (2 of 5)



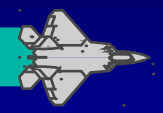
- **Prairie Warrior 99 (Apr-May 1999)**
  - First use of ATI in an exercise
- **Blue Flag 99-4 (Sep 1999)**
  - Supported with one ATI developer and the 505th ECS database management staff
  - Addressed and corrected performance issues, while providing uninterrupted feedback to 8AF TBMCS at Barksdale AFB
  - No outstanding C4I Feedback or MPW issues

ATI Phase II Results (3 of 5)



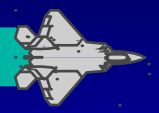
- **C4I Feedback**
  - All updates provided by original ACI feedback capability maintained (ETD, ATD, ATR and Mission Complete statuses with corresponding times)
  - Allows a system delay to be assigned to all feedback events, providing for more realistic conditions at the AOC level
    - Takeoff/landing times would normally be delayed by a certain amount in real-world ops
  - Status updates guaranteed to be sequentially correct
  - New capabilities:
    - Batch-mode processing which collects updates and provides them to TBMCS on diskette or tape
    - Airbase/Ship Status Update
    - Mission Deviation Reporting

ATI Phase II Results (4 of 5)



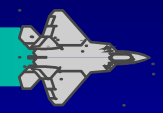
- **Mission Planner Workstation**
  - **Initial capability during JEFX 99 Spiral 3**
  - **Met all of the goals set forth at the Los Alamos TIM**
  - **Well received by the staffs of the 505th ECS and C2TIG planning cells**
  - **Current Capabilities:**
    - **Graphical display of all non-error missions on GIAC screen**
    - **Controller inputs from the GIAC accepted for ATTACK, SHOOT, PROCEED POSITION, ASSIGN CAP/ORBIT, SCRAMBLE and LAUNCH commands**

ATI Phase II Results (5 of 5)



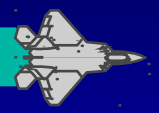
- **On Site TBMCS Testing - Lockheed Martin - Colorado Springs**
  - **Supported Testing of TBMCS Build 2.1.1 (Version 1.0)**
    - **Results: Allowed BF99-4 to Use Integrated Version of ATI**
  - **Supported Development Testing of TBMCS Build 2.1.3**
    - **Results: Allowed Developers to Coordinate in the Development Lab**
    - **Allowed Testing to Move Forward to TBMCS Integration Testing**
  - **<u>Scheduled</u>: TBMCS Build 2.1.3 Integration Testing**
    - **17 Oct - 29 Oct 1999**
    - **Goal: Completed Feedback Testing and Authorization**
    - **Goal: ICD in place capable of supporting December 1999 JFAT testing and beyond.**

ACI/ATI Future (1 of 3)



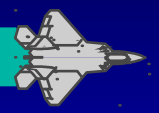
- **C4I Feedback HMI**
  - Modify reporting behavior of feedback messages by
    - Mission number
    - Airbase / Ship
    - Squadron / Task Unit
    - Package ID
    - Message Type (ETD, ATD, etc.)
  - Allow the ATI operator to review, edit and approve held feedback messages
  - Provide an audit log for all feedback to TBMCS
- **Logistics**
  - Ship location
  - A/C, weapon and fuel quantities by airbase/ship

ACI/ATI Future (2 of 3)



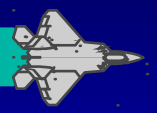
- **Mission Planner Workstation**
  - **Package Planning**
    - **Recommend a TIM to refine the desired behavior of a mission package planner**
  - **Airspace Editor**
    - **Provide visual representation of TBMCS airspace during airspace translation**
  - **Automated Mission Routing**
    - **Automatically add threat avoidance routing to order stack**
    - **Add global editing**
  - **Use of DTED data**
    - **Addition of altitude information and effects to MPW**

ACI/ATI Future (3 of 3)



- **Merging of ACI and ATI**
  - Provide full ATI functionality to ACI users
  - Reduce maintenance effort
    - AWSIM2 Upgrades
    - GDS Upgrades
- **Extract Target Information from Air Battle Plan**
  - Ascertain target types for target references in ATO message
  - Display targets on MPW screen as displayed by TAP to AOC planners
- **Blue/Neutral Database Build**

Conclusion



Questions?